

Linear Position Sensors Shock-Proof up to 200 g

Turck's enhanced Li linear position sensors measure position values at a frequency of 5 kHz – at measuring lengths of up to 2 m

Mülheim, November 7, 2018 – Turck has updated its contactless Li Q25 positioning systems and has now added new Extended variants to the program. The inductive measuring principle offers improved shock resistance and sampling rate compared to alternative measuring systems. With measuring lengths of up to 2 m, the Li sensors outperform magnetostrictive linear position sensors, which, due to their operating principle, sense at a slower rate as the measuring length increases.

The Extended series of the IP67 sensors are not only resistant to harsh environmental conditions such as from humidity and dirt. These devices reliably output a position signal when subject to vibration or shocks of up to 200 g. The 5 kHz scan rate keeps positioning errors to a minimum – something that was previously unachievable in rugged applications. Precision has also been further increased with a 16-bit D/A converter.

Li sensors, with their immunity to magnetic fields, are generally ideal for closed-loop control tasks in the metalworking industry, as the metal shavings accumulated here do not stick to the positioning element inducing linearity errors. Thanks to their shock resistance, they can be used for position measurement in presses and punching machines without any problems, as well as in wood processing or injection molding machines.

The Li linear position sensors always supply their output signal twice; as a 0 - 10 V signal and as 4 - 20 mA signal. This makes it possible to connect diagnostic systems and also reduces the number of device variants to be kept in reserve. Turck is offering the new devices in measuring lengths of 100 to 2000 mm.

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Tougher, faster, further: Turck's extended Li sensors push back the limits of linear position measurement

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